WEST Search History

Hide Items Restore Clear Cancel

DATE: Monday, June 21, 2004

Hide?	Set Name	Query	Hit Count
	DB=PGPB, U	${\it JSPT, USOC, EPAB, JPAB, DWPI; PLUR} =$	YES; OP=OR
	L12	L9 and lecithin	44
	L11	L9 and lecithin	44
	L10	L9 and phosphocholine	0
	L9	11 and syphilis	108
	L8	L7 and cholestrol	1
	L7	L6 and lecithin	62
	L6	L3 and antigen	111
	L5	L3 and syphilis	0
	L4	L3 and VDRL	0
	L3	L2 and synthetic	146
	L2	L1 and phosphocholine	164
	L1	tetramyristoyl cardiolipin	1625

END OF SEARCH HISTORY

=> d hist

(FILE 'HOME' ENTERED AT 19:03:34 ON 21 JUN 2004)

	ILE 'BIOSIS, MEDLINE, EMBASE, JAPIO, USPATFULL, AGRICOLA, SCISEARCH	í.
	PIDS, HCAPLUS' ENTERED AT 19:04:08 ON 21 JUN 2004	,
L1	26 S TETRAMYRISTOYL CARDIOLIPIN	
L2	0 S L1 AND HOSPHOCHOLINE	
L3	5 S L1 AND PHOSPHOCHOLINE	
L4	1 DUP REM L3 (4 DUPLICATES REMOVED)	
	E POPE	
L5	32 S E3 AND VICTORIA	
L6	1 S L5 AND PHOSPHOCHOLINE	
L7	1 S L5 AND CARDIOLIPIN	
L8	1 S L6 AND L7	
L9	2363 S VDRL	
L10	522 S L9 AND ANTIGEN	
L11	23 S L10 AND CARDIOLIPIN (L) SYNTHETIC	
L12	19 DUP REM L11 (4 DUPLICATES REMOVED)	

FILE 'STNGUIDE' ENTERED AT 19:11:43 ON 21 JUN 2004

FILE 'HCAPLUS' ENTERED AT 19:04:08 ON 21 JUN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> s tetramyristoyl cardiolipin

L1 26 TETRAMYRISTOYL CARDIOLIPIN

=> s l1 and hosphocholine

L2 0 L1 AND HOSPHOCHOLINE

=> s l1 and phosphocholine

L3 5 L1 AND PHOSPHOCHOLINE

=> d 13 1-5 ibib abs

L3 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2000:334114 BIOSIS

DOCUMENT

PREV200000334114

TITLE:

Use of synthetic cardiolipin and lecithin in the antigen used by the Venereal Disease Research Laboratory test for

serodiagnosis of syphilis.

AUTHOR (S):

Castro, Arnold R. [Reprint author]; Morrill, William E.;

Shaw, Walter A.; Gale, David C.; Park, Mahin M.; Peregrino-Ferreira, Luiz A.; Bazzo, Maria L.; Pope,

Victoria

CORPORATE SOURCE:

Division of AIDS, STD, and TB Laboratory Research, Centers

for Disease Control and Prevention, 1600 Clifton Rd.,

Atlanta, GA, 30333, USA

SOURCE:

Clinical and Diagnostic Laboratory Immunology, (July, 2000)

Vol. 7, No. 4, pp. 658-661. print.

ISSN: 1071-412X.

DOCUMENT TYPE:

Article English

LANGUAGE: ENTRY DATE:

Entered STN: 10 Aug 2000

Last Updated on STN: 7 Jan 2002

The Venereal Disease Research Laboratory (VDRL) test is a microflocculation test for syphilis that uses an antigen containing cardiolipin, lecithin, and cholesterol. For more than 50 years, the preparation of natural cardiolipin and lecithin for this test has been based on the Pangborn method which involves isolating and purifying these components from beef hearts. This process is tedious and time-consuming and results in a variable purity range. In our studies, we found that a VDRL antigen using synthetic tetramyristoyl cardiolipin and synthetic 1-palmitoyl-2-oleoyl-sn-qlycero-3-phosphocholine (lecithin) was as specific in detecting syphilis as a VDRL antigen made with natural components. In 85% of the cases, we obtained an endpoint titer of 1/2 or 1 dilution more than a titer obtained with a VDRL antiqen made with natural components. The use of these pure synthetic compounds, with a purity of 99%, would offer advantages in the standardization and stability of the VDRL antigen. Because this antigen is the basic ingredient in the preparation of nontreponemal reagents such as the rapid plasma reagin, toluidine red unheated serum test, and the unheated serum reagin, the use of this synthetic VDRL antigen should also increase the reactivity of these reagents.

L3 ANSWER 2 OF 5

MEDLINE on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2000425594 MEDLINE PubMed ID: 10882668

TITLE:

Use of synthetic cardiolipin and lecithin in the antigen used by the venereal disease research laboratory test for

serodiagnosis of syphilis.

AUTHOR:

Castro A R; Morrill W E; Shaw W A; Gale D C; Park M M;

Peregrino-Ferreira L A; Bazzo M L; Pope V

CORPORATE SOURCE: Division of AIDS, STD, and TB Laboratory Research, Centers

for Disease Control and Prevention, Atlanta, Georgia 30333,

USA.. ajc5@cdc.gov

SOURCE: Clinical and diagnostic laboratory immunology, (2000 Jul) 7

(4) 658-61.

Journal code: 9421292. ISSN: 1071-412X.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200009

ENTRY DATE:

Entered STN: 20000922

Last Updated on STN: 20000922

Entered Medline: 20000912

AB The Venereal Disease Research Laboratory (VDRL) test is a microflocculation test for syphilis that uses an antigen containing cardiolipin, lecithin, and cholesterol. For more than 50 years, the preparation of natural cardiolipin and lecithin for this test has been based on the Pangborn method which involves isolating and purifying these components from beef hearts. This process is tedious and time-consuming and results in a variable purity range. In our studies, we found that a VDRL antigen using synthetic tetramyristoyl cardiolipin and synthetic 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine (lecithin) was as specific in detecting syphilis as a VDRL antigen made with natural components. In 85% of the cases, we obtained an endpoint titer of 1/2 or 1 dilution more than a titer obtained with a VDRL antigen made with natural components. The use of these pure synthetic compounds, with a purity of 99%, would offer advantages in the standardization and stability of the VDRL antigen. Because this antigen is the basic ingredient in the preparation of nontreponemal reagents such as the rapid plasma reagin, toluidine red unheated serum test, and the unheated serum reagin, the use of this synthetic VDRL antiqen should also increase the reactivity of these reagents.

L3 ANSWER 3 OF 5 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

2000255565 EMBASE

TITLE:

AUTHOR:

Use of synthetic cardiolipin and lecithin in the antigen used by the Venereal Disease Research Laboratory test for

serodiagnosis of syphilis.

Castro A.R.; Morrill W.E.; Shaw W.A.; Gale D.C.; Park M.M.; Peregrino- Ferreira L.A.; Bazzo M.L.; Pope V.

A.R. Castro, Div. of AIDS, STD, and TB Lab. Res., Centers

CORPORATE SOURCE:

for Dis. Control and Prev., Mail Stop D-13, 1600 Clifton Rd., Atlanta, GA 30333, United States. ajc@cdc.gov

SOURCE: Clinical

Clinical and Diagnostic Laboratory Immunology, (2000) 7/4

(658-661).

Refs: 13

ISSN: 1071-412X CODEN: CDIMEN

COUNTRY:

United States Journal; Article

DOCUMENT TYPE: FILE SEGMENT:

004 Microbiology

LANGUAGE:

English

SUMMARY LANGUAGE:

English

The Venereal Disease Research Laboratory (VDRL) test is a microflocculation test for syphilis that uses an antigen containing cardiolipin, lecithin, and cholesterol. For more than 50 years, the preparation of natural cardiolipin and lecithin for this test has been based on the Pangborn method which involves isolating and purifying these components from beef hearts. This process is tedious and time-consuming and results in a variable purity range. In our studies, we found that a VDRL antigen using synthetic tetramyristoyl cardiolipin and synthetic 1-palmitoyl- 2-oleoyl-sn-glycero-3-phosphocholine (lecithin) was as specific in detecting syphilis as a VDRL antigen made

with natural components. In 85% of the cases, we obtained an endpoint titer of 1/2 or 1 dilution more than a titer obtained with a VDRL antigen made with natural components. The use of these pure synthetic compounds, with a purity of 99%, would offer advantages in the standardization and stability of the VDRL antigen. Because this antigen is the basic ingredient in the preparation of nontreponemal reagents such as the rapid plasma reagin, toluidine red unheated serum test, and the unheated serum reagin, the use of this synthetic VDRL antigen should also increase the reactivity of these reagents.

ANSWER 4 OF 5 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 2000:523021 SCISEARCH

THE GENUINE ARTICLE: 332AT

TITLE: Use of synthetic cardiolipin and lecithin in the antigen

used by the Venereal Disease Research Laboratory Test for

serodiagnosis of syphilis

AUTHOR: Castro A R (Reprint); Morrill W E; Shaw W A; Gale D C;

Park M M; PeregrinoFerreira L A; Bazzo M L; Pope V

CORPORATE SOURCE: CTR DIS CONTROL & PREVENT, DIV AIDS STD, 1600 CLIFTON RD,

MAIL STOP D-13, ATLANTA, GA 30333 (Reprint); CTR DIS CONTROL & PREVENT, TB LAB RES, ATLANTA, GA 30333; GEORGIA DEPT HUMAN RESOURCES LAB, ATLANTA, GA; AVANTI POLAR LIPIDS

INC, ALABASTER, AL; UNIV FED SANTA CATARINA,

FLORIANOPOLIS, SC, BRAZIL

COUNTRY OF AUTHOR:

USA; BRAZIL

SOURCE: CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY, (JUL 2000)

Vol. 7, No. 4, pp. 658-661.

Publisher: AMER SOC MICROBIOLOGY, 1752 N ST NW,

WASHINGTON, DC 20036-2904.

ISSN: 1071-412X.

DOCUMENT TYPE:

Article; Journal

FILE SEGMENT:

LIFE

LANGUAGE:

English

REFERENCE COUNT:

13 *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*

AB The Venereal Disease Research Laboratory (VDRL) test is a microflocculation test for syphilis that uses an antigen containing cardiolipin, lecithin, and cholesterol, For more than 50 years, the preparation of natural cardiolipin and lecithin for this test has been based on the Pangborn method which involves isolating and purifying these components from beef hearts. This process is tedious and time-consuming and results in a variable purity range, In our studies, we found that a VDRL antigen using synthetic tetramyristoyl cardiolipin and synthetic 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine (lecithin) was as specific in detecting syphilis as a VDRL antiqen made with natural components. In 85% of the cases, we obtained an endpoint titer of 1/2 or 1 dilution more than a titer obtained with a VDRL antigen made with natural components. The use of these pure synthetic compounds, with a purity of 99%, would offer advantages in the standardization and stability of the VDRL antigen, Because this antigen is the basic ingredient in the preparation of nontreponemal reagents such as the rapid plasma reagin, toluidine red unheated serum test, and the unheated serum reagin, the use of this synthetic VDRL antigen should also increase the reactivity of these reagents.

ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:537109 HCAPLUS

DOCUMENT NUMBER:

134:128134

TITLE:

Use of synthetic cardiolipin and lecithin in the antigen used by the venereal disease research laboratory test for serodiagnosis of syphilis

AUTHOR (S):

Castro, Arnold R.; Morrill, William E.; Shaw, Walter

A.; Gale, David C.; Park, Mahin M.;

Peregrino-Ferreira, Luiz A.; Bazzo, Maria L.; Pope,

Victoria

CORPORATE SOURCE:

Division of AIDS, STD, and TB Laboratory Research, Centers for Disease Control and Prevention, Atlanta,

GA, 30333, USA

SOURCE:

Clinical and Diagnostic Laboratory Immunology (2000),

7(4), 658-661

CODEN: CDIMEN; ISSN: 1071-412X American Society for Microbiology

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE:

English

AR The Venereal Disease Research Laboratory (VDRL) test is a microflocculation test

for syphilis that uses an antigen containing cardiolipin, lecithin, and cholesterol. For more than 50 yr, the preparation of natural cardiolipin and lecithin for this test has been based on the Pangborn method which involves isolating and purifying these components from beef hearts. process is tedious and time-consuming and results in a variable purity range. In our studies, we found that a VDRL antigen using synthetic tetramyristoyl cardiolipin and synthetic

1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine (lecithin) was as specific in detecting syphilis as a VDRL antigen made with natural components. In 85% of the cases, we obtained an endpoint titer of 1/2 or 1 dilution more than a titer obtained with a VDRL antigen made with natural components. The use of these pure synthetic compds., with a purity of 99%, would offer advantages in the standardization and stability of the VDRL antigen. Because this antigen is the basic ingredient in the preparation of non-treponemal reagents such as the rapid plasma reagin, toluidine red unheated serum test, and the unheated serum reagin, the use of this synthetic VDRL antigen should also increase the reactivity of these reagents.

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> dup rem 13 PROCESSING COMPLETED FOR L3

1 DUP REM L3 (4 DUPLICATES REMOVED)

13

=> d hist

(FILE 'HOME' ENTERED AT 19:03:34 ON 21 JUN 2004)

FILE 'BIOSIS, MEDLINE, EMBASE, JAPIO, USPATFULL, AGRICOLA, SCISEARCH. WPIDS, HCAPLUS' ENTERED AT 19:04:08 ON 21 JUN 2004

LT 26 S TETRAMYRISTOYL CARDIOLIPIN

1.2 0 S L1 AND HOSPHOCHOLINE

L35 S L1 AND PHOSPHOCHOLINE

T.4 1 DUP REM L3 (4 DUPLICATES REMOVED)

=> e pope

E1

POPDYN/BI E2 2 POPDYNJFB/BI E3 3925 --> POPE/BI E4 4 POPEO/BI E5 2 POPE1/BI E6 POPE101/BI 4 E7 1 POPE111/BI E8 1 POPE2/BI E9 4 POPE3/BI

2

E10 5 POPE40/BI E11 11 POPE51/BI

E12 5 POPE52/BI L532 POPE/BI AND VICTORIA

=> s 15 and phosphocholine

1 L5 AND PHOSPHOCHOLINE

=> s 15 and cardiolipin

1 L5 AND CARDIOLIPIN

=> s 16 and 17

1 L6 AND L7

=> d 18 ibib abs

INVENTOR(S):

ANSWER 1 OF 1 USPATFULL on STN

ACCESSION NUMBER: 2002:141139 USPATFULL

TITLE:

Methods of enhancing SPLP-mediated transfection using

endosomal membrane destabilizers Lam, Angela M.I., Vancouver, CANADA Palmer, Lorne R., Vancouver, CANADA

Cullis, Pieter R., Vancouver, CANADA

KIND DATE NUMBER ---------

US 2002072121 A1 20020613 US 2001-839707 A1 20010420 (9) PATENT INFORMATION:

APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2000-553639, filed RELATED APPLN. INFO.:

on 20 Apr 2000, PENDING

NUMBER -----

CA 2000-451 PRIORITY INFORMATION: 20000420

US 2000-227949P 20000825 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO LEGAL REPRESENTATIVE:

CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

NUMBER OF CLAIMS: 68

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 23 Drawing Page(s)

LINE COUNT: 3598

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides novel and surprisingly effective methods AB for delivering nucleic acids to cells. These methods are based upon the discovery that the presence of endosomal membrane destabilizers (e.g., calcium) leads to a dramatic increase in the transfection efficiency of plasmids formulated as SPLP, or "stabilized plasmid-lipid particles."

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s VDRL

2363 VDRL

=> s 19 and antigen

522 L9 AND ANTIGEN

=> s 110 and cardiolipin (1) synthetic

L11 23 L10 AND CARDIOLIPIN (L) SYNTHETIC

=> dup rem 111

PROCESSING COMPLETED FOR L11

L1219 DUP REM L11 (4 DUPLICATES REMOVED)

=> d l11 1-19 ibib abs

L11 ANSWER 1 OF 23 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER:

2000:334114 BIOSIS

DOCUMENT NUMBER:

PREV200000334114

TITLE:

Use of synthetic cardiolipin and

lecithin in the antigen used by the Venereal

Disease Research Laboratory test for serodiagnosis of

syphilis.

AUTHOR(S):

Castro, Arnold R. [Reprint author]; Morrill, William E.;

Shaw, Walter A.; Gale, David C.; Park, Mahin M.; Peregrino-Ferreira, Luiz A.; Bazzo, Maria L.; Pope,

Victoria

CORPORATE SOURCE:

Division of AIDS, STD, and TB Laboratory Research, Centers

for Disease Control and Prevention, 1600 Clifton Rd.,

Atlanta, GA, 30333, USA

SOURCE:

Clinical and Diagnostic Laboratory Immunology, (July, 2000)

Vol. 7, No. 4, pp. 658-661. print.

ISSN: 1071-412X.

DOCUMENT TYPE:

Article English

LANGUAGE: ENTRY DATE:

Entered STN: 10 Aug 2000

Last Updated on STN: 7 Jan 2002

The Venereal Disease Research Laboratory (VDRL) test is a microflocculation test for syphilis that uses an antigen containing cardiolipin, lecithin, and cholesterol. For more than 50 years, the preparation of natural cardiolipin and

lecithin for this test has been based on the Pangborn method which involves isolating and purifying these components from beef hearts. This process is tedious and time-consuming and results in a variable purity

range. In our studies, we found that a VDRL antigen

using synthetic tetramyristoyl cardiolipin and

synthetic 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine (lecithin) was as specific in detecting syphilis as a VDRL

antigen made with natural components. In 85% of the cases, we
obtained an endpoint titer of 1/2 or 1 dilution more than a titer obtained

with a VDRL antigen made with natural components. The

use of these pure synthetic compounds, with a purity of 99%, would offer advantages in the standardization and stability of the

VDRL antigen. Because this antigen is the

basic ingredient in the preparation of nontreponemal reagents such as the rapid plasma reagin, toluidine red unheated serum test, and the unheated serum reagin, the use of this synthetic VDRL

antigen should also increase the reactivity of these reagents.

L11 ANSWER 2 OF 23 MEDLINE on STN ACCESSION NUMBER: 2000425594 MEDLINE DOCUMENT NUMBER: PubMed ID: 10882668

TITLE:

Use of synthetic cardiolipin and

lecithin in the antigen used by the venereal

disease research laboratory test for serodiagnosis of

syphilis.

AUTHOR:

Castro A R; Morrill W E; Shaw W A; Gale D C; Park M M;

Peregrino-Ferreira L A; Bazzo M L; Pope V

CORPORATE SOURCE:

Division of AIDS, STD, and TB Laboratory Research, Centers for Disease Control and Prevention, Atlanta, Georgia 30333,

USA.. ajc5@cdc.gov

SOURCE:

Clinical and diagnostic laboratory immunology, (2000 Jul) 7

(4) 658-61.

Journal code: 9421292. ISSN: 1071-412X.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200009

ENTRY DATE:

Entered STN: 20000922

Last Updated on STN: 20000922 Entered Medline: 20000912

AB The Venereal Disease Research Laboratory (VDRL) test is a microflocculation test for syphilis that uses an antigen containing cardiolipin, lecithin, and cholesterol. For more than 50 years, the preparation of natural cardiolipin and lecithin for this test has been based on the Pangborn method which involves isolating and purifying these components from beef hearts. process is tedious and time-consuming and results in a variable purity range. In our studies, we found that a VDRL antigen using synthetic tetramyristoyl cardiolipin and synthetic 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine (lecithin) was as specific in detecting syphilis as a VDRL antigen made with natural components. In 85% of the cases, we obtained an endpoint titer of 1/2 or 1 dilution more than a titer obtained with a VDRL antigen made with natural components. The use of these pure synthetic compounds, with a purity of 99%, would offer advantages in the standardization and stability of the VDRL antigen. Because this antigen is the basic ingredient in the preparation of nontreponemal reagents such as the rapid plasma reagin, toluidine red unheated serum test, and the unheated serum reagin, the use of this synthetic VDRL antigen should also increase the reactivity of these reagents.

L11 ANSWER 3 OF 23 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

2000255565 EMBASE

TITLE:

Use of synthetic cardiolipin and

lecithin in the antigen used by the Venereal

Disease Research Laboratory test for serodiagnosis of

syphilis.

AUTHOR:

Castro A.R.; Morrill W.E.; Shaw W.A.; Gale D.C.; Park M.M.;

Peregrino- Ferreira L.A.; Bazzo M.L.; Pope V.

CORPORATE SOURCE:

A.R. Castro, Div. of AIDS, STD, and TB Lab. Res., Centers for Dis. Control and Prev., Mail Stop D-13, 1600 Clifton

Rd., Atlanta, GA 30333, United States. ajc@cdc.gov

SOURCE:

Clinical and Diagnostic Laboratory Immunology, (2000) 7/4

(658-661).

United States

Refs: 13

ISSN: 1071-412X CODEN: CDIMEN

COUNTRY: DOCUMENT TYPE: FILE SEGMENT:

Journal; Article 004 Microbiology

LANGUAGE: English

SUMMARY LANGUAGE: English

The Venereal Disease Research Laboratory (VDRL) test is a microflocculation test for syphilis that uses an antigen containing cardiolipin, lecithin, and cholesterol. For more than 50 years, the preparation of natural cardiolipin and lecithin for this test has been based on the Pangborn method which involves isolating and purifying these components from beef hearts. This process is tedious and time-consuming and results in a variable purity range. In our studies, we found that a VDRL antigen using synthetic tetramyristoyl cardiolipin and synthetic 1-palmitoyl- 2-oleoyl-sn-glycero-3-phosphocholine (lecithin) was as specific in detecting syphilis as a VDRL antigen made with natural components. In 85% of the cases, we obtained an endpoint titer of 1/2 or 1 dilution more than a titer obtained with a VDRL antigen made with natural components. The use of these pure synthetic compounds, with a purity of 99%, would offer advantages in the standardization and stability of the VDRL antigen. Because this antigen is the basic ingredient in the preparation of nontreponemal reagents such as the

rapid plasma reagin, toluidine red unheated serum test, and the unheated serum reagin, the use of this synthetic VDRL antigen should also increase the reactivity of these reagents.

L11 ANSWER 4 OF 23 USPATFULL on STN

ACCESSION NUMBER:

2004:13382 USPATFULL

TITLE:

APL immunoreactive peptides, conjugates thereof and methods of treatment for aPL antibody-mediated

pathologies

INVENTOR(S):

Victoria, Edward Jess, San Diego, CA, UNITED STATES Marquis, David Matthew, Encinitas, CA, UNITED STATES

Jones, David S., San Diego, CA, UNITED STATES

Yu, Lin, San Diego, CA, UNITED STATES

NUMBER KIND DATE -----

PATENT INFORMATION:

US 2004009904 A1 20040115 US 2002-44844 A1 20020110 (10)

APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 1998-160513, filed on 24

Sep 1998, GRANTED, Pat. No. US 6410775 Continuation of Ser. No. US 1996-760508, filed on 5 Dec 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-660092, filed

on 6 Jun 1996, GRANTED, Pat. No. US 6207160

Continuation-in-part of Ser. No. US 1995-482651, filed

on 7 Jun 1995, GRANTED, Pat. No. US 5874409

DOCUMENT TYPE:

FILE SEGMENT:

APPLICATION

Utility

74

LEGAL REPRESENTATIVE: Madeline I. Johnston, Morrison & Foerster LLP, 755 Page

Mill Road, Palo Alto, CA, 94304-1018

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

32 Drawing Page(s)

LINE COUNT: 3595

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

aPL analogs that (a) bind specifically to B cells to which an aPL AB epitope binds and are disclosed. Optimized analogs lack T cell epitope(s) are useful as conjugates for treating aPL antibody-mediated diseases. Conjugates comprising aPL analogs and nonimmunogenic valency platform molecules are provides as are novel nonimmunogenic valency platform molecules and linkers. Methods of preparing and identifying said analogs, methods of treatment using said analogs, methods and compositions for preparing conjugates of said analogs and diagnostic immunoassays for aPL antibodies are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 5 OF 23 USPATFULL on STN

ACCESSION NUMBER:

2002:152823 USPATFULL

TITLE:

APL immunoreactive peptides, conjugates thereof and

methods of treatment for APL antibody-mediated

pathologies

INVENTOR(S):

Victoria, Edward Jess, San Diego, CA, United States Marquis, David Matthew, Encinitas, CA, United States

Jones, David S., San Diego, CA, United States

Yu, Lin, San Diego, CA, United States

PATENT ASSIGNEE(S):

La Jolla Pharmaceutical Company, San Diego, CA, United

States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION:

APPLICATION INFO.:

US 6410775 B1 20020625 US 1998-160513 19980924 (9)

Continuation of Ser. No. US 1996-760508, filed on 5 Dec RELATED APPLN. INFO.: 1996, now abandoned Continuation-in-part of Ser. No. US 1996-660092, filed on 6 Jun 1996, now patented, Pat. No. US 6207160 Continuation-in-part of Ser. No. US 1995-482651, filed on 7 Jun 1995, now patented, Pat.

No. US 5874409

DOCUMENT TYPE: FILE SEGMENT:

Utility GRANTED

PRIMARY EXAMINER:

Ceperley, Mary E.

LEGAL REPRESENTATIVE:

Morrison & Foerster LLP

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

34 Drawing Figure(s); 32 Drawing Page(s)

LINE COUNT:

4309

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

aPL analogs that (a) bind specifically to B cells to which an aPL epitope binds and are disclosed. Optimized analogs lack T cell epitope(s) are useful as conjugates for treating aPL antibody-mediated diseases. Conjugates comprising aPL analogs and nonimmunogenic valency platform molecules are provides as are novel nonimmunogenic valency platform molecules and linkers. Methods of preparing and identifying said analogs, methods of treatment using said analogs, methods and compositions for preparing conjugates of said analogs and diagnostic immunoassays for aPL antibodies are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 6 OF 23 USPATFULL on STN

ACCESSION NUMBER:

2001:112060 USPATFULL

TITLE:

Lipid-dependent diagnostic assays

INVENTOR (S):

Janoff, Andrew S., Yardley, PA, United States

Rauch, Joyce, Montreal, Canada

PATENT ASSIGNEE(S):

Taraschi, Theodore F., Tabernacle, NJ, United States The Liposome Company, Inc., Princeton, NJ, United

States (U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 6261792 20010717 APPLICATION INFO.: US 1995-441567 19950515

Continuation of Ser. No. US 1994-201718, filed on 25 RELATED APPLN. INFO.: Feb 1994, now abandoned Continuation of Ser. No. US 1991-723497, filed on 28 Jun 1991, now abandoned

Continuation-in-part of Ser. No. US 1990-623340, filed

on 7 Dec 1990, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Gitomer, Ralph LEGAL REPRESENTATIVE: Goodman, Rosanne

NUMBER OF CLAIMS: 28 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 5 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT: 959

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

For use in a lipid-dependent diagnostic assay, a stable aqueous suspension of a phospholipid which normally has a hexagonal (H.sub.II) organization when dispersed in an aqueous medium without detergent, the suspension containing the phospholipid, a detergent, and an aqueous phase. In the stable suspension, the phospholipid remains in suspension at a temperature of 25° C. for at least one hour. The suspension is suitable for providing the phospholipid to an assay for lupus anticoagulants which includes the step of pre-incubating a test sample with the phospholipid.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Bulletin of the World Health Organization - Maternal and congenital syphilis in Bo... Page 11 of 31

L11 ANSWER 7 OF 23 USPATFULL on STN

2001:43718 USPATFULL ACCESSION NUMBER:

aPL immunoreactive peptides, conjugates thereof and TITLE:

methods of treatment for aPL antibody-mediated

pathologies

Victoria, Edward Jess, San Diego, CA, United States INVENTOR(S):

Marquis, David Matthew, Encinitas, CA, United States

Jones, David S., San Diego, CA, United States

Yu, Lin, San Diego, CA, United States

La Jolla Pharmaceutical Company, San Diego, CA, United PATENT ASSIGNEE(S):

States (U.S. corporation)

DATE NUMBER KIND

PATENT INFORMATION: APPLICATION INFO.:

20010327 US 6207160 B1

RELATED APPLN. INFO.:

US 1996-660092 19960606 (8) Continuation-in-part of Ser. No. US 1995-482651, filed

on 7 Jun 1995, now patented, Pat. No. US 5874409

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

Wortman, Donna C. PRIMARY EXAMINER:

Morrison & Foerster, LLP LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 25 EXEMPLARY CLAIM:

22 Drawing Figure(s); 20 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 2783

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

aPL analogs that (a) bind specifically to B cells to which an aPL epitope binds and are disclosed. Optimized analogs lack T cell epitope(s) are useful as conjugates for treating aPL antibody-mediated diseases. Methods of preparing and identifying said analogs, methods of treatment using said analogs, methods and compositions for preparing conjugates of said analogs and diagnostic immunoassays for aPL antibodies are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 8 OF 23 USPATFULL on STN

ACCESSION NUMBER: 1999:24628 USPATFULL

TITLE: APL immunoreactive peptides, conjugates thereof and

methods of treatment for APL antibody-mediated

pathologies

Victoria, Edward Jess, San Diego, CA, United States INVENTOR(S):

Marquis, David Matthew, Encinitas, CA, United States La Jolla Pharmaceutical Company, San Diego, CA, United

PATENT ASSIGNEE(S): States (U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 5874409 19990223 US 1995-482651 19950607 (8) APPLICATION INFO.:

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Eisenschenk, Frank C. ASSISTANT EXAMINER: Nolan, Patrick J. Morrison & Foerster LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 15 Drawing Figure(s); 10 Drawing Page(s)

LINE COUNT: 2083

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

aPL analogs that (a) bind specifically to B cells to which the aPL epitope binds and (b) lack T cell epitope(s), methods preparing and identifying said analogs and methods of treatment using said analogs are Bulletin of the World Health Organization - Maternal and congenital syphilis in Bo... Page 12 of 31

disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 9 OF 23 USPATFULL on STN

ACCESSION NUMBER:

97:106984 USPATFULL

TITLE:

Stabilized microspheres and methods of preparation

INVENTOR(S):

Malick, Adrien, Granite, MD, United States Feindt, Hans H., Parkton, MD, United States Hahn, Gerald D., Severn, MD, United States

PATENT ASSIGNEE(S):

Becton, Dickinson and Company, Franklin Lakes, NJ,

United States (U.S. corporation)

NUMBER KIND _____

PATENT INFORMATION:

APPLICATION INFO.:

19960503

RELATED APPLN. INFO.:

US 5688697 19971118 US 1996-642373 19960503 Division of Ser. No. US 1994-343305, filed on 22 Nov

1994, now patented, Pat. No. US 5580735 which is a

division of Ser. No. US 1993-1907, filed on 4 Jan 1993,

now patented, Pat. No. US 5393527

DOCUMENT TYPE:

FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER:

Green, Lora M.

LEGAL REPRESENTATIVE:

Fugit, Donna R.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

15 1

LINE COUNT:

744

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Stabilized microspherical particles having hydrophobic liquid cores prepared as oil-in-water microemulsions. The particles are stabilized by a surface layer comprising an amphiphilic compound and may be functionalized to allow covalent coupling of a ligand to the surface of the particle. When used as tracers in assays, a water insoluble dye may be incorporated in the core liquid of the microparticles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 10 OF 23 USPATFULL on STN

ACCESSION NUMBER: TITLE:

97:47266 USPATFULL

INVENTOR(S):

Stabilized microspheres and methods of preparation

Malick, Adrien, Granite, MD, United States Feindt, Hans H., Parkton, MD, United States

PATENT ASSIGNEE(S):

Becton, Dickinson and Company, Franklin Lakes, NJ,

United States (U.S. corporation)

KIND DATE NUMBER ______ US 5635357 19970603 US 1994-343313 19941122 (8)

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 1993-1907, filed on 4 Jan

1993, now patented, Pat. No. US 5393527

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT: PRIMARY EXAMINER:

Cunningham, Thomas M.

LEGAL REPRESENTATIVE:

Fugit, Donna R.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

1

704

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Stabilized microspherical particles having hydrophobic liquid cores prepared as oil-in-water microemulsions. The particles are stabilized by a surface layer comprising an amphiphilic compound and may be

functionalized to allow covalent coupling of a ligand to the surface of

Bulletin of the World Health Organization - Maternal and congenital syphilis in Bo... Page 13 of 31

the particle. When used as tracers in assays, a water insoluble dye may be incorporated in the core liquid of the microparticles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 11 OF 23 USPATFULL on STN

ACCESSION NUMBER:

97:31625 USPATFULL

TITLE:

Stabilized microspheres and methods of preparation

and the second s

INVENTOR (S):

Malick, Adrien, Granite, MD, United States Feindt, Hans H., Parkton, MD, United States Hahn, Gerald D., Severn, MD, United States

PATENT ASSIGNEE(S):

Becton, Dickinson and Company, Franklin Lakes, NJ,

United States (U.S. corporation)

NUMBER KIND DATE _____

PATENT INFORMATION:

US 5620903 19970415

APPLICATION INFO.: RELATED APPLN. INFO.: US 5620903 19970415 US 1995-374001 19950118 (8)

Continuation-in-part of Ser. No. US 1993-1907, filed on 4 Jan 1993, now patented, Pat. No. US 5393527, issued

on 28 Feb 1995

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: ASSISTANT EXAMINER:

Scheiner, Toni R. Huff, Sheela J.

LEGAL REPRESENTATIVE:

Fugit, Donna R.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

14

LINE COUNT:

935

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Stabilized microspherical particles having hydrophobic liquid cores

prepared as oil-in-water microemulsions. The particles are stabilized by a surface layer comprising an amphiphilic compound and may be

functionalized to allow covalent coupling of a ligand to the surface of the particle. When used as tracers in assays, a water insoluble dye may

be incorporated in the core liquid of the microparticles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 12 OF 23 USPATFULL on STN

ACCESSION NUMBER:

97:3692 USPATFULL

TITLE:

Stabilized microspheres and methods of preparation

INVENTOR(S):

Malick, Adrien, Granite, MD, United States Feindt, Hans H., Parkton, MD, United States

PATENT ASSIGNEE(S):

Becton, Dickinson and Company, Franklin Lakes, NJ,

United States (U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION:

APPLICATION INFO.:

RELATED APPLN. INFO.:

US 5593843 19970114 US 1994-343795 19941122 US 1994-343795 19941122 (8) Division of Ser. No. US 1993-1907, filed on 4 Jan 1993,

now patented, Pat. No. US 5393527, issued on 28 Feb

1995

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: ASSISTANT EXAMINER: Scheiner, Toni R.

LEGAL REPRESENTATIVE:

Huff, Sheela J. Fugit, Donna R.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

9

LINE COUNT:

1 758

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Stabilized microspherical particles having hydrophobic liquid cores

Bulletin of the World Health Organization - Maternal and congenital syphilis in Bo... Page 14 of 31

h ce gce h c c

prepared as oil-in-water microemulsions. The particles are stabilized by a surface layer comprising an amphiphilic compound and may be functionalized to allow covalent coupling of a ligand to the surface of the particle. When used as tracers in assays, a water insoluble dye may be incorporated in the core liquid of the microparticles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 13 OF 23 USPATFULL on STN

ACCESSION NUMBER:

96:111326 USPATFULL

TITLE:

Stabilized microspheres and methods of preparation

The state of the s

INVENTOR (S):

Malick, Adrien, Granite, MD, United States Feindt, Hans H., Parkton, MD, United States Hahn, Gerald D., Severn, MD, United States

PATENT ASSIGNEE(S):

Becton, Dickinson and Company, Franklin Lakes, NJ,

United States (U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION: APPLICATION INFO.:

US 5580735 19961203 US 1994-343305 19941122 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-1907, filed on 4 Jan 1993,

now patented, Pat. No. US 5393527

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: ASSISTANT EXAMINER: LEGAL REPRESENTATIVE:

Chan, Christina Y. Green, Lora M. Fugit, Donna R.

NUMBER OF CLAIMS:

5

EXEMPLARY CLAIM: LINE COUNT:

1 711

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Stabilized microspherical particles having hydrophobic liquid cores prepared as oil-in-water microemulsions. The particles are stabilized by a surface layer comprising an amphiphilic compound and may be functionalized to allow covalent coupling of a ligand to the surface of the particle. When used as tracers in assays, a water insoluble dye may be incorporated in the core liquid of the microparticles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 14 OF 23 USPATFULL on STN

ACCESSION NUMBER:

95:18200 USPATFULL

TITLE:

Stabilized microspheres and methods of preparation

INVENTOR (S):

Malick, Adrien, Granite, MD, United States Feindt, Hans H., Parkton, MD, United States

PATENT ASSIGNEE(S):

Becton, Dickinson and Company, Franklin Lakes, NJ,

United States (U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 5393527 19950228 US 1993-1907 19930104 (8) APPLICATION INFO.: DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: ASSISTANT EXAMINER: Wax, Robert A. Schmickel, David Fugit, Donna R.

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS:

11

EXEMPLARY CLAIM: LINE COUNT:

1 730

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Stabilized microspherical particles having hydrophobic liquid cores prepared as oil-in-water microemulsions. The particles are stabilized by Bulletin of the World Health Organization - Maternal and congenital syphilis in Bo... Page 15 of 31

h ce gce h c c

a surface layer comprising an amphiphilic compound and may be. functionalized to allow covalent coupling of a ligand to the surface of the particle. When used as tracers in assays, a water insoluble dye may be incorporated in the core liquid of the microparticles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 15 OF 23 USPATFULL on STN

ACCESSION NUMBER:

PATENT ASSIGNEE(S):

88:24376 USPATFULL

TITLE:

Reaginic test for syphilis

INVENTOR(S):

Yabusaki, Kenichi K., Albany, CA, United States Advanced Polymer Systems, Inc., Redwood City, CA,

United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 4738932		19880419	
APPLICATION INFO .:	US 1985-804059		19851203	(6)
DOCUMENT TYPE:	Utility			

Granted FILE SEGMENT:

PRIMARY EXAMINER: Nucker, Christine M.

Ciotti & Murashige, Irell & Manella LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 25 EXEMPLARY CLAIM: 1,11

LINE COUNT: 493

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A reaginic agglutination test for syphilis-associated antibodies is disclosed. The test uses an antigen reagent that comprises a buffered aqueous suspension of cardiolipin antigen ionically coupled to latex particles via a polypeptide bridge. Positive sera react with the antigen reagent and yield an agglutination pattern characterized by medium to large aggregates. Negative sera yield no agglutinated particles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 16 OF 23 USPATFULL on STN

ACCESSION NUMBER:

78:16520 USPATFULL

TITLE:

Antigen membranes for use in syphilis

diagnosis and syphilis diagnosis apparatus using such

membranes

INVENTOR(S):

Suzuki, Shuichi, Tokyo, Japan Aizawa, Masuo, Tokyo, Japan Ishigur, Isao, Kasugai, Japan Shinohara, Rikio, Kagamihara, Japan Nagamura, Yoichi, Toyoake, Japan

PATENT ASSIGNEE(S):

Nippon Chemiphar Co., Ltd., Tokyo, Japan (non-U.S.

corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION: APPLICATION INFO.:	US 4081334 US 1977-779139	-	19780328 19770318	y
	NUMBER	DATE	Ξ \	

PRIORITY INFORMATION:

JP 1976-29632 19760318 JP 1976-29633 19760318 JP 1976-29634 19760318 JP 1976-81408 19760621

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted Kaplan, G. L.

PRIMARY EXAMINER: LEGAL REPRESENTATIVE:

Oblon, Fisher, Spivak, McClelland & Maier

Bulletin of the World Health Organization - Maternal and congenital syphilis in Bo... Page 16 of 31

NUMBER OF CLAIMS:

17

EXEMPLARY CLAIM:

1,3,10

NUMBER OF DRAWINGS:

7 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT:

454

An antigen membrane for syphilis diagnosis comprises cardiolipin immobilized in a polymer maxtrix. The membranes are used in syphilis diagnosis and in an apparatus for syphilis diagnosis.

L11 ANSWER 17 OF 23 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER:

2000:523021 SCISEARCH

THE GENUINE ARTICLE: 332AT

TITLE:

Use of synthetic cardiolipin and

lecithin in the antigen used by the Venereal

Disease Research Laboratory Test for serodiagnosis of

AUTHOR:

Castro A R (Reprint); Morrill W E; Shaw W A; Gale D C;

Park M M; PeregrinoFerreira L A; Bazzo M L; Pope V

CORPORATE SOURCE:

CTR DIS CONTROL & PREVENT, DIV AIDS STD, 1600 CLIFTON RD, MAIL STOP D-13, ATLANTA, GA 30333 (Reprint); CTR DIS CONTROL & PREVENT, TB LAB RES, ATLANTA, GA 30333; GEORGIA

DEPT HUMAN RESOURCES LAB, ATLANTA, GA; AVANTI POLAR LIPIDS INC, ALABASTER, AL; UNIV FED SANTA CATARINA,

FLORIANOPOLIS, SC, BRAZIL

COUNTRY OF AUTHOR:

SOURCE:

USA; BRAZIL

CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY, (JUL 2000)

Vol. 7, No. 4, pp. 658-661.

Publisher: AMER SOC MICROBIOLOGY, 1752 N ST NW,

WASHINGTON, DC 20036-2904.

ISSN: 1071-412X.

DOCUMENT TYPE:

Article; Journal LIFE

FILE SEGMENT: LANGUAGE:

English

13

REFERENCE COUNT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

The Venereal Disease Research Laboratory (VDRL) test is a AB microflocculation test for syphilis that uses an antigen containing cardiolipin, lecithin, and cholesterol, For more than 50 years, the preparation of natural cardiolipin and lecithin for this test has been based on the Pangborn method which involves isolating and purifying these components from beef hearts. This process is tedious and time-consuming and results in a variable purity range, In our studies, we found that a VDRL antigen using synthetic tetramyristoyl cardiolipin and synthetic 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine (lecithin) was as specific in detecting syphilis as a VDRL antigen made with natural components. In 85% of the cases, we obtained an endpoint titer of 1/2 or 1 dilution more than a titer obtained with a VDRL antigen made with natural components. The use of these pure synthetic compounds, with a purity of 99%, would offer advantages in the standardization and stability of the VDRL antigen, Because this antigen is the basic ingredient in the preparation of nontreponemal reagents such as the rapid plasma reagin, toluidine red unheated serum test, and the unheated serum reagin, the use of this synthetic VDRL

L11 ANSWER 18 OF 23 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:537109 HCAPLUS

antigen should also increase the reactivity of these reagents.

DOCUMENT NUMBER:

134:128134

TITLE:

Use of synthetic cardiolipin and

lecithin in the antigen used by the venereal

disease research laboratory test for serodiagnosis of

syphilis

Bulletin of the World Health Organization - Maternal and congenital syphilis in Bo... Page 17 of 31

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A.; Gale, David C.; Park, Mahin M.;
                         Peregrino-Ferreira, Luiz A.; Bazzo, Maria L.; Pope,
                         Victoria
                         Division of AIDS, STD, and TB Laboratory Research,
CORPORATE SOURCE:
                         Centers for Disease Control and Prevention, Atlanta,
                         GA, 30333, USA
                         Clinical and Diagnostic Laboratory Immunology (2000),
SOURCE:
                         7(4), 658-661
                         CODEN: CDIMEN; ISSN: 1071-412X
PUBLISHER:
                         American Society for Microbiology
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     The Venereal Disease Research Laboratory (VDRL) test is a
     microflocculation test for syphilis that uses an antigen containing
     cardiolipin, lecithin, and cholesterol. For more than 50 yr, the
     preparation of natural cardiolipin and lecithin for this test has
     been based on the Pangborn method which involves isolating and purifying
     these components from beef hearts. This process is tedious and
     time-consuming and results in a variable purity range. In our studies, we
     found that a VDRL antigen using synthetic
     tetramyristoyl cardiolipin and synthetic
     1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine (lecithin) was as
     specific in detecting syphilis as a VDRL antigen made
     with natural components. In 85% of the cases, we obtained an endpoint
     titer of 1/2 or 1 dilution more than a titer obtained with a VDRL
     antigen made with natural components. The use of these pure
     synthetic compds., with a purity of 99%, would offer advantages in
     the standardization and stability of the VDRL antigen.
     Because this antigen is the basic ingredient in the preparation of
     non-treponemal reagents such as the rapid plasma reagin, toluidine red
     unheated serum test, and the unheated serum reagin, the use of this
     synthetic VDRL antigen should also increase
     the reactivity of these reagents.
REFERENCE COUNT:
                               THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
                         13
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L11 ANSWER 19 OF 23 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                         1966:450770 HCAPLUS
DOCUMENT NUMBER:
                         65:50770
ORIGINAL REFERENCE NO.: 65:9522b-e
TITLE:
                         Chemical structure and serological activity of natural
                         and synthetic cardiolipin and
                         related compounds
AUTHOR (S):
                         de Bruijn, J. H.
CORPORATE SOURCE:
                         Natl. Inst. Public Health, Utrecht, Neth.
SOURCE:
                         Brit. J. Venereal Diseases (1966), 42(2), 125-8
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     A review of the literature is presented on the chemical structure of
     cardiolipin and the serological activity of similar
     synthetic compds. For the 1st time a synthetic product,
     diphosphatidylglycerol (which contains equimolar amts. of stearic and
     oleic acids) (I), is reported to be qualified as a substitute for natural
     cardiolipin in syphilis serology. Solns. of I, natural lecithin
     (II), and cholesterol (III) in dehydrated EtOH were mixed and constituted
     to give antigens with the following compns.: 0.0175% I, 0.0875%
     II, and 0.3% III for the Kolmer test; and 0.03% I, 0.21% II, and 0.9% III
     for the VDRL microflocculation test. These antigens
     were tested in parallel with similar mixts. prepared with the same II and
     III, but containing natural cardiolipin instead of I. The Kolmer
    complement-fixation test (Am. J. Clin. Path. 12, 109(1942)) was carried
    out in its 1/5-volume modification employing 2 "exact units" of complement.
     In titrns. with human syphilitic serum, both antigens showed an
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Castro, Arnold R.; Morrill, William E.; Shaw, Walter

AUTHOR (S):

almost identical pattern with the usual prezone phenomenon. In the qual. VDRL microflocculation test, results obtained with the antigen containing I compared favorably with those of standard antigen. The former gave even more clear-cut pos. reactions without altering the specificity of the test. The results obtained indicate that the degree of unsatn. of the fatty acid chains apparently is not of primary importance for serological activity. Even if reasons of economy were to prevent the general application of I (preferably in combination with synthetic II) in the sero-diagnosis of syphilis, it would be worthwhile to consider its use as an international standard. 40 references.

=> FIL STNGUIDE COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 74.17 74.38 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -2.08 -2.08

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FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Jun 18, 2004 (20040618/UP).

=> d hist

(FILE 'HOME' ENTERED AT 19:03:34 ON 21 JUN 2004)

FILE 'BIOSIS, MEDLINE, EMBASE, JAPIO, USPATFULL, AGRICOLA, SCISEARCH, WPIDS, HCAPLUS' ENTERED AT 19:04:08 ON 21 JUN 2004

L1	26	S TETRAMYRISTOYL CARDIOLIPIN
L2	0	S L1 AND HOSPHOCHOLINE
L3	5	S L1 AND PHOSPHOCHOLINE
L4	1	DUP REM L3 (4 DUPLICATES REMOVED)
		E POPE
L5	32	S E3 AND VICTORIA
L6	1	S L5 AND PHOSPHOCHOLINE
L7	1	S L5 AND CARDIOLIPIN
L8	1	S L6 AND L7
L9	2363	S VDRL
L10	522	S L9 AND ANTIGEN
L11	23	S L10 AND CARDIOLIPIN (L) SYNTHETIC
L12	19	DUP REM L11 (4 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 19:11:43 ON 21 JUN 2004